

Climatological Data for June, 1910.
DISTRICT No. 3, OHIO VALLEY.

FERDINAND J. WALZ, District Editor.

GENERAL SUMMARY.

The most pronounced features of the month were the unseasonably low temperatures that persisted during the entire first half of the month and the abnormally warm weather which prevailed during the latter half of the second and the first part of the third decades. Also the month was remarkable for the unusually large number of severe and damaging thunderstorms that occurred over the section south of the Ohio River and the extreme southern parts of Ohio, Indiana, and Illinois. Many of these storms were attended by severe hail and heavy rainfall, causing damage to crops and washing the hillsides and flooding the bottom lands. There were also a large number of instances of damage from lightning; some 8 or 10 persons lost their lives, barns were struck, and numerous head of stock killed.

During the first half of the month the weather conditions were largely controlled by moderately low pressure areas, no severe general barometric disturbances passing over the district. During this period the weather was cold and wet, rains being very frequent and in some portions of the district heavy. During the first 4 days of the month some of the coldest weather that has ever been experienced in June occurred, temperatures near freezing being registered over considerable areas, and light frosts occurred in some of the northern and central portions of the district. These conditions, following the cold weather which prevailed during May, greatly retarded the growth and development of vegetation in general.

The latter half of the month was largely dominated by high pressure areas. Conditions were much more favorable during this period and the warm and sultry weather, with the frequent showers that prevailed, greatly aided to advance growth, so that by the latter part of the month vegetation was near the normal stage of development. During the latter half of the month quite high temperatures were registered nearly every day, especially in the northern and central portions of the district. In the period 19th to the 24th the weather was excessively warm and sultry and many prostrations were reported. These, however, were mostly confined to the cities. While rains were frequent in nearly all parts, there was a marked variation in the aggregate amount that was received in the several parts of the district. Over much of the southern and parts of the central and eastern portions the rainfall was largely in excess, while over the northern portion there was a decided deficiency, especially over the north-central portions of Ohio, Indiana, and Illinois. In Kentucky there was entirely too much rain over the central and eastern portions and a deficiency in the western portion. In the period 9th to 11th very heavy and damaging rains fell over the central portions of Kentucky and Tennessee. On the 18th and 19th there were very heavy rains in the western portions of Pennsylvania and Maryland and the Monongahela Basin of West Virginia, causing freshets in the streams, and resulting in a considerable amount of damage, a number of houses being carried away by the high water.

On the 27th and 28th heavy rains occurred over nearly the whole of the district. In the mountain sections of Kentucky and West Virginia there were several so-called "cloud-bursts," which caused a great deal of damage locally, destroying houses and crops and causing a number of deaths.

TEMPERATURE.

During the first half of the month unusually cool weather prevailed in practically all parts of the district. The average daily temperatures during this period ranged from 3° to 18°

below normal. The first 4 days were remarkably cool, the average daily temperatures over nearly the whole territory ranging between 6° and 20° below normal. During these 4 days the minimum temperatures registered at a number of the stations in the district were as low as have ever been recorded in June at those stations. The lowest temperature for the month was 29° at Burks Garden, Va., on the 4th, which is the lowest known June temperature for Virginia. Minimum temperatures near freezing occurred in West Virginia, Ohio, Indiana, and western North Carolina; and values between 36° and 40° in southwestern Virginia, Kentucky, and Tennessee; and between 40° and 50° in the northern portions of Alabama and Georgia. Light frosts formed in Kentucky, West Virginia, southwestern Virginia, and in the States north of the Ohio River on one or more of those dates, and snow flurries occurred at several of the mountain stations in West Virginia on the 1st. A change to warmer weather set in about the 16th, and during the remainder of the month temperatures were mostly above normal, the daily excess ranging from 2° to 8° . The highest temperatures were reported in the period from the 19th to the 24th, although from the 16th to the 27th, inclusive, maximum temperatures of 90° and over were registered nearly every day over most of the district. The highest temperature reported was 100° on the 19th at Martinsville, Ill. The weather during the latter half of the month was unusually sultry and oppressive. There was considerable suffering and a number of instances of prostration from the heat.

For the month, as a whole, the temperature averaged from 2° to 4° below normal in practically all parts of the district, and in several of the States south of the Ohio River the month takes its place next to the coldest June of the past 2 or 3 decades.

PRECIPITATION.

The normal rainfall for June for the area comprising the Ohio River watershed ranges between 4 and 5 inches, the larger amount being in the more southerly and the smaller in the more northerly portions. The rainfall for this June was below normal over the western and northern portions of the district, and over the headwaters of the Tennessee River. It was above normal over most of the southern, central, and eastern portions of the district. Over the northern portions of Alabama and Georgia, extreme western North Carolina, the central and southeastern portions of Tennessee, the central portions of Kentucky, and the central and eastern portions of West Virginia, the rainfall for the month was between 6 and 10 inches. Over the remainder of the district south of the Ohio River, except in the extreme western portion of Kentucky and northwestern Tennessee, the precipitation was between 3 and 6 inches, while over the portions of Kentucky and Tennessee last mentioned, and over nearly all of the district north of the Ohio River, it was less than 3 inches, and in many places less than 2 inches. At a number of stations in north-central Indiana it was less than 1 inch, the smallest amount occurring at any place in the district being 0.34 inch at Winona Lake, Ind. The largest amount was 11.3 inches at Parsons, W. Va.

Rains occurred very generally over the district nearly every day during the first week, and in the periods 9-10th and 27-28th. They were more or less general in the eastern and southern portions including Tennessee, during nearly the whole of the month. There was little or no rain, however, in the extreme western portion of New York after the 18th, and only scattered showers occurred in Kentucky and the States north of the Ohio River in the period 20-26th. Rain occurred in considerable amounts in Kentucky and West Virginia on the 29th and in the States south of Kentucky on the 29th and 30th, but

there was practically none in the district north of the Ohio River on those 2 days.

Thunderstorms were unusually frequent over the southern half of the district throughout nearly the entire month and over the northern portion during the latter half.

DAMAGE FROM STORMS.

June 5.—A severe local hail storm at Bristol, Tenn., did great damage to trees and crops. Hundreds of birds were killed by the hail.

June 8.—A local wind and rain storm did considerable damage at Columbia, Tenn. Several head of stock were killed.

June 9 to 11.—Heavy rains and electrical storms occurred over portions of Kentucky and Tennessee. Considerable damage resulted from these storms, especially from flooding of streams and overflowing of the lowlands. There was considerable injury to railroad beds by washing out the tracks in portions of Tennessee and Alabama. Many streams were out of their banks in these sections and a number of bridges on streams in central Kentucky were swept away.

June 15.—Severe hailstorms occurred in the eastern portions of Kentucky and Tennessee and in western Virginia. These storms covered wide areas and a great deal of damage was done to crops, gardens, and trees by the hail.

June 16.—A terrific electric storm occurred in Columbiana County, Ohio, about 6 p. m. The storm was accompanied by hailstones measuring as much as 2 inches in diameter and 1 inch in thickness.

June 18 and 19.—During the night of the 18–19th severe storms, accompanied by excessive rainfalls, occurred over the southwestern portion of Pennsylvania, northern West Virginia, and western Maryland, causing losses estimated at several hundred thousand dollars. Greene County and a large portion of Washington County, Pa., were cut off from communication. In these counties a number of buildings with their contents were carried off by the floods into the Monongahela River. There were many narrow escapes from drowning, and there was also considerable damage from wind and lightning. Railroads through that section were tied up by landslides and washouts, and several railroad bridges and a number of county bridges were carried away. The Mesta Coal Company's damage was estimated at \$10,000, besides the loss of 2 months' time required to make the necessary repairs. Several towns on the Cheat River were nearly inundated.

June 19.—Local thunderstorms, attended by hail and lightning, caused a great deal of damage in portions of Kentucky and Ohio. A number of barns were burned and numerous cattle were killed by the lightning.

June 20.—Severe hailstorms and excessive rains occurred in several counties in the north-central portion of Kentucky and in portions of Tennessee, Alabama, Ohio, West Virginia, and in Pike County, Ind. Considerable local damage resulted from these storms.

June 24.—Severe electric storms and wind squalls occurred in central Kentucky, southern Indiana, and southern Ohio. Considerable local damage was done to crops, trees, and electric wires. A Pullman sleeper on the west-bound Chesapeake and Ohio train was struck by lightning near Midway, Ky. The car was greatly damaged and all the windows on one side broken. Fortunately none of the passengers was injured, although several had narrow escapes, being stunned. A very severe and destructive hail and wind storm swept over Jefferson, N. C., on this date. The cooperative observer at that place gives the following account of the storm:

The course of this storm was from the southeast and covered a territory about 7 miles broad and perhaps twice as long. During the hour preceding the storm the atmosphere was hot and sultry. The electrical display during

the storm was phenomenal, flashes of lightning followed each other almost without intermission, resulting in clap after clap of thunder, fearful in intensity and nearness, the most sublime and awe-inspiring war of the elements ever seen in this mountain country. The damage done to crops and meadows will amount to several thousand dollars.

June 25–28.—In this period there were many severe local storms attended by excessive rains and damaging hail and lightning, especially in the southern, central, and eastern portions of the district. About the 27th these storms were especially severe in eastern Kentucky, western West Virginia, and southwestern Pennsylvania. In a number of places they were attended by cloudbursts, resulting in great destruction. In Jackson County, W. Va., a cloudburst occurred on Mill Creek, a small stream, causing it to become a raging torrent, sweeping everything before it. A number of houses and railroad bridges were carried away and several persons were drowned. This is an illustration of what occurred at several places in West Virginia and southwestern Pennsylvania. On the upper watershed of the Kentucky River, in Knott and Floyd counties, a cloudburst occurred in which 30 houses were swept away, farm crops were ruined, and the whole section devastated. At the headwaters of the Licking River a cloudburst covering about 10 miles of territory flooded the district, washing away many houses, drowning 5 persons, destroying a large number of live stock, carrying off with the flood the household effects of many families, and devastating the river valley for more than 20 miles of all the crops, garden truck, stored grain, and provisions, and leaving homeless some 500 to 1,000 people. Owing to the volume of water and suddenness of its approach, not only the homes of the citizens and their provisions and household effects were carried away, but the surface of the ground on which were their growing crops and other means of subsistence was washed away. The roads were filled with débris from the flood and by landslides from the mountains, and were so blockaded as to render travel impossible, even on horseback. The floods destroyed a large part of the growing crops, washed away fences, and rendered the citizens almost helpless over a distance of more than 75 miles down the valley. The damage and suffering were so great and extensive as to call for aid from the State and the people.

FATALITIES FROM LIGHTNING.

June 15.—Two men were killed, another fatally, and 6 others badly injured by lightning near Richmond, Ky. They, with a number of others, had taken shelter in a barn.

June 17.—Two men were killed by lightning at Irvine, Ky. They were struck while stacking lumber in a saw mill yard.

June 20.—A man was killed by lightning at Henderson, Ky. A barn in Bullitt County, Ky., was struck by lightning and destroyed, together with its contents, and a number of mules, horses, and cows were killed.

June 22.—A man was killed in Jeffersonville, Ind.

June 23.—A man was killed by lightning at Knoxville, Tenn., and a woman was fatally injured by lightning at Owensboro, Ky.

June 24.—A man was killed by lightning at Buckhannon, W. Va.

June 27.—Five mules and several cows were killed by lightning in Montgomery County, Ky.

POWER PROJECT AT BRISTOL, TENN.

Work was begun on a big power dam at the Horseshoe Bend of the Watauga River, in Carter County, Tenn. This project involves an expenditure of \$250,000. The power is to be developed by the Doe River Light and Power Company, with a view to furnishing electricity for power purposes in Bristol. The light and power company is under contract to furnish power in Bristol by July 1 of next year. The dam will have a thickness of 48 feet at its base, and will be 50 feet high and 300 feet across.

TABLE 1.—Climatological data for June, 1910. District No. 3, Ohio Valley.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.				Precipitation, in inches.				Sky.			Prevailing wind direction.	Observers.				
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmeted.	Number of rainy days, 0.1 inch or more.	Number of clear days.	Number of cloudy days.			
<i>New York.</i>																				
Allegany.	Cattaraugus.	1,441	4	61.5	- 0.6	89	22	33	4	2.10	0.54	0.0	10	18	6	10	nw.	Charles E. Whitney.		
Bolivar.	Allegany.	1,800	15	61.8	- 1.2	88	29	32	7	1.72	0.37	0.0	9	10	3	17	w.	Lowell Andrus.		
Franklinville.	Cattaraugus.	1,598	13	61.4	- 1.2	88	29	32	7	1.98	0.55	0.0	9	18	3	9	w.	Dr. John W. Kales.		
Olean.	do.	2								2.08	0.62	0.0	14	20	4	6	w.	John W. Alles.		
<i>Pennsylvania.</i>																				
Aleppo.	Greene.	1,135	9	65.0	- 2.4	90	23	37	1	2.54	0.45	0.0	10	18	6	6	sw.	J. S. Hinerman.		
Baldwin.	Butler.	1,404	4	64.6	- 2.2	89	22	38	3	1.68	0.46	0.0	12	16	6	10	w.	S. H. Temperton.		
Clayville.	Washington.	1,127	6	66.6	- 2.3	95	23	37	8	3.11	0.86	0.0	14	11	14	5	w.	E. T. Buchanan.		
Franklin.	Venango.	955	36	63.6	- 2.4	90	23	39	8	2.18	1.64	0.72	0.0	9	18	2	10	nw.	F. E. Dixon.	
Greenville.	Mercer.	950	14	63.8	- 2.9	91	23	35	1	1.33	2.94	0.46	0.0	10	20	3	7	nw.	A. M. Orr.	
Indiana.	Indiana.	1,350	13	65.4	- 1.7	91	22	38	8	3.19	1.78	0.84	0.0	11	9	4	17	s.	Rev. J. M. Welch.	
Johnstown.	Cambria.	1,184	22	65.7	- 3.8	94	21	40	8	3.76	1.36	0.80	0.0	14	7	17	6	s.	E. C. Lorentz.	
Lycoming.	Westmoreland.	1,420	18	65.4	- 3.1	89	21	37	1	2.9	0.77	2.10	0.0	13	12	5	13	nw.	Murray Forbes.	
Pittsburg.	Allegheny.	842	60	67.0	- 3.7	90	23	42	1	2.94	1.77	0.44	0.0	13	12	8	11	nw.	U. S. Weather Bureau.	
Saegerstown.	Crawford.	1,116	19	62.0	- 3.4	90	30	33	8	1.73	2.71	0.82	0.0	7	11	11	11	nw.	J. G. Apple.	
St. Marys.	Elk.	1,740	12																Wm. E. Wittman.	
Skidmore.	Lawrence.	1,000	6	65.0	- 2.2	92	22	36	1	2.05	0.80	0.0	9	20	2	23	sw.	W. H. Stoner.		
Somerset.	Somerset.	2,250	54	63.4	- 2.2	88	24	35	1	8.68	3.73	2.35	0.0	14	2	18	10	sc.	W. M. Schrock.	
Uniontown.	Fayette.	999	22	65.5	- 4.8	89	25	39	1	4.33	0.42	2.00	0.0	14	4	15	11	sw.	Wm. Hunt.	
Warren.	Warren.	1,137	21	62.4	- 2.4	88	22	35	6	3.98	2.25	0.72	0.0	5	16	1	13	w.	Anna Simpson.	
<i>Maryland.</i>																				
Deer Park.	Garrett.	16	61.8	- 1.4	99	20	30	8	54	5.05	+ 0.83	1.06	0.0	19	1	22	7		S. P. Specht.	
Grantville.	do.	16	60.4	- 3.7	84	22	36	1	54.3	+ 1.36	0.85	0.0	17	1	22	7		J. S. Miller.		
Oakland.	do.	10	61.6	-	87	30	34	8	6.34	-	1.10	0.0	0	21	9	8	13	w.	R. E. Weber.	
<i>West Virginia.</i>																				
Arboval.	Pocahontas.	2																	Uriah Hevener, Jr.	
Bancroft.	Putnam.	6	68.6	-	92	21	41	2	32	6.27	-	1.97	0.0	14	11	7	12	sw.	James Hill.	
Beckley.	Raleigh.	2,440	11																John A. Ewart.	
Ben's Run.	Pleasants.	623	9	67.6	-	90	21	43	1	33	2.43	-	0.80	0.0	14	18	6	6		J. D. Riggs.
Bluefield.	Mercer.	2,563	15	63.8	- 5.3	87	30	37	6	41	2.85	- 2.59	1.54	0.0	7	9	8	13		Norfolk & Western Ry.
Buckhannon.	Upshur.	1,472	20	66.0	- 3.2	89	24	38	8	6.20	1.24	1.18	0.0	16	13	7	10	w.	H. A. Darnall.	
Cairo.	Ritchie.	667	8	68.0	-	94	24	40	4	3.26	-	1.10	0.0	10	6	17	7	w.	Van A. Zevely.	
Central Station.	Doddridge.	900	11	70.0	-	89	22	35	1	3.52	1.74	0.69	0.0	12	14	8	8	w.	G. W. Sherwood.	
Charleston.	Kanawha.	598	34	69.4	-	91	19	43	1	8.61	+ 4.02	2.72	0.0	12	14	8	8	w.	R. C. Hewes.	
Creston.	Wirt.	612	10	67.8	-	91	24	41	2	3.8	4.32	0.40	1.05	0.0	14	10	7	13	w.	J. M. Reed.
Cuba.	Jackson.	544	9	66.8	-	91	24	37	2	3.7	4.86	+ 0.84	2.60	0.0	13	11	13	6	w.	C. T. Perry.
Doane.	Wayne.	5																	W. H. Jude.	
Elkhorn.	McDowell.	1,933	18	66.4	- 2.1	88	30	37	1	2.8	5.53	+ 0.41	1.00	0.0	17	15	7	8	sw.	J. J. Lincoln.
Elkins.	Randolph.	1,940	11	64.4	- 2.2	89	30	38	1	8.05	+ 3.01	1.33	0.0	17	3	13	14	w.	U. S. Weather Bureau.	
Fairmont.	Marion.	870	18	68.0	-	94	26	39	8	4.14	- 0.51	0.68	0.0	15					H. Glenn Fleming.	
Glennaville.	Gilmer.	738	22	69.0	- 1.2	94	22	42	1	3.42	- 0.50	0.70	0.0	13	9	2	19	sw.	John Holt.	
Grafton.	Taylor.	985	17	67.0	- 1.7	91	23	40	1	3.16	- 0.63	0.85	0.0	16	13	11	6		John W. Spader.	
Green Sulphur Springs.	Summers.	1,600	14	66.4	- 2.3	94	30	33	2	3.9	5.84	+ 1.65	1.53	0.0	14	18	1	11	w.	John W. Dalton.
Hinton.	do.	1,400	21																V. V. Daly.	
Huntingdon.	Cabell.	510	15	70.1	- 2.4	96	23	44	2	3.23	5.94	+ 1.50	1.34	0.0	14	16	6	8	w.	L. H. Hutchinson.
Lewisburg.	Greenbrier.	2,200	10	64.8	- 2.8	87	30	34	12	3.05	+ 1.72	1.95	0.0	13	12	8	10	w.	Geo. T. Agabrite.	
Logan.	Logan.	665	8	70.7	-	93	30	43	2	4.01	7.09	-	1.47	0.0	12	12	0	0	w.	H. C. Ragland.
Lost Creek.	Harrison.	1,033	14	66.0	- 2.4	91	23	37	8	3.51	- 0.59	0.98	0.0	13	12	6	12	w.	Allen Smith.	
Madison.	Boone.	704	5																S. E. Bradley.	
Mannington.	Marion.	967	7	66.2	-	90	20	38	8	3.9	3.11	-	0.67	0.0	15	14	5	11	w.	Jas. A. Morgan.
Marlinton.	Pocahontas.	2,169	11	60.9	- 5.8	81	30	36	2	32	7.38	+ 2.25	1.00	0.0	13	7	12	11		C. J. McCarty.
Morgantown.	Monongalia.	1,250	36	65.6	- 3.4	86	24	39	1	30	4.89	+ 0.18	1.39	0.0	16	10	10	10	s.	Horace Atwood.
Moundsville.	Marshall.	640	8	67.7	-	94	30	41	1	37	1.52	-	0.43	0.0	9	15	7	13	nw.	J. E. Matthews.
New Cumberland.	Hancock.	987	10	64.8	- 3.7	91	23	40	17	3.5	1.75	- 3.49	0.40	0.0	7	10	7	13	w.	Frank S. Evans.
New Martinsville.	Wetzel.	634	17	69.0	- 2.6	95	30	42	2	36	1.55	- 2.29	0.40	0.0	11	20	6	4	s.	Wm. Ankron.
Nuttallburg.	Fayette.	2,252	18	62.6	- 6.0	85	20	38	17	34	5.86	+ 1.57	1.32	0.0	13	11	7	12		Stephen Tully.
Parkersburg.	Wood.	633	22	68.8	- 2.8	92	23	44	1	31	7.95	- 2.90	0.48	0.0	10	7	14	9	n.	U. S. Weather Bureau.
Parsons.	Tucker.	1,662	11	64.3	- 2.1	92	30	38	8	3.8	4.45	- 0.15	0.94	0.0	20	9	13	8	w.	J. W. Swisher.
Philippi.	Barbour.	1,192	18	66.6	- 1.3	92	30	39	8	3.8	4.45	- 0.15	0.94	0.0	20	8	17	5	w.	J. D. Dadisman.
Pickens.	Randolph.	2,785	20	61.8	- 3.5	90	30	33	1	4.03	10.60	+ 4.55	1.65	0.0	20	12	9	9	w.	Dr. J. L. Cunningham.
Pineville.	Wyoming.	2																	E. M. Senter.	
Point Pleasant.	Mason.	553	21	69.1	- 4.2	93	19	42	2	32	4.05	- 0.53	1.04	0.0	14	13	5	12	se.	E. H. Armstrong.
Powellton.	Fayette.	904	14	68.7	- 1.6	90	22	38	1	39	9.05	+ 1.68	1.45	0.0	12	4	18	8	w.	D. Swain.
Princeton.	Mercer.	2,469	10	60.8	-	79	19	36	4	39	7.32	-	3.45	0.0	12	15	4	11	sw.	E. P. Turley.
Robertsburg.	Putnam.	1	68.6	-	93	23	41	2	39	7.32	-	2.87	0.0	10	13	8	9	13	Wm. E. Ryan.	
Ryan.	Roane.	630	7	66.1	-	90	23	37	2	36	7.12	-	2.87	0.0	13	8	9	13	ne.	G. M. Whisler.
Smithfield.	Wetzel.	6	65.2	-	88	25	40	8	30	6.23	-	0.48	0.0	10	14	8	8	ne.	A. M. McKown.	
Spencer.	Roane.	710	7	65.5	-	92	20	37	2	49	6.57	+ 2.03	2.52	0.0	10	1	21	8	ne.	J. E. Baughman.
Sutton.	Braxton.	5	71.4	-	95	23	44	1	38	3.93	-	1.50	0.0	12	21	2	15	15*	C. F. Dodge.	
Terra Alta.	Preston.	3,207	10	64.8	- 0.3	90</td														

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Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmeted.	Number of partly cloudy days.	Number of cloudy days.			
Ohio—Cont'd.																			
Frankfort.	Ross.	750	18	68.2	-2.5	95	23	43	4	34	5.52	+2.37	1.00	0.0	10	16	7	7 sw.	
Garretttsville.	Portage.	1,005	26	62.4	-3.0	90	23	35	4	37	1.62	-2.07	0.73	0.0	8	15	7	8 nw.	
Granville.	Licking.	980	28	66.1	-3.1	94	23	37	2	36	2.43	-1.54	1.33	0.0	10	19	0	11 sw.	
Gratiot.	do.	1,000	21	64.9	-4.5	89	23	38	2	37	2.60	-1.52	0.69	0.0	10	5	17	8 sw.	
Green.	Adams.	500	17	67.8	-4.1	94	28	40	2	37	5.37	+1.21	2.00	0.0	8	13	10	7 w.	
Green Hill.	Columbiana.	1,135	18	62.4	-3.8	90	30	34	8	39	2.41	-1.61	0.60	0.0	12	12	13	5 sw.	
Greenville.	Darke.	1,060	24	67.6	-1.8	94	26	40	1	36	2.24	-2.09	0.07	0.0	8	16	6	8 n.	
Hillsboro.	Highland.	1,063	31	66.5	-5.3	91	23	43	1	29	6.49	+3.08	2.30	0.0	10	9	16	5 sw.	
Ironton.	Lawrence.	575	27	69.2	-2.0	94	19	41	2	42	6.43	+1.90	1.71	0.0	14	17	7	6 sw.	
Jacksonburg.	Butler.	975	42	68.2	-3.5	95	26	40	31	35	1.71	-2.38	0.75	0.0	6	13	9	8 s.	
Kenton.	Hardin.	1,015	18	64.6	-5.1	94	23	34	2	40	1.84	-2.65	0.52	0.0	10	16	7	7 w.	
Killbuck.	Holmes.	1,087	18	64.5	-4.0	90	23	38	3	34	3.14	-0.30	1.17	0.0	9	15	8	7 n.	
Lancaster.	Fairfield.	898	15	67.6	-1.5	91	23	40	1	36	4.63	-0.01	1.12	0.0	11	15	7	8 sw.	
Lawshe.	Adams.	900	7	67.3		95	24	37	2	35	6.96		2.08	0.0	13	13	10	7 w.	
McConnelsville.	Morgan.	710	26	67.2	-2.9	92	23	39	2	33	2.86	-1.46	0.80	0.0	14	11	4	6 s.	
Marietta.	Washington.	627	90	69.0	-1.2	95	23	42	4	37	1.92	-2.31	0.40	0.0	14	15	5	12 sw.	
Marion.	Marion.	980	32	66.7	-3.0	96	23	36	2	38	2.31	-1.76	0.56	0.0	9	13	12	5 sw.	
Milfordton.	Knox.	1,200	18	65.0	-2.8	91	26	38	4	34	2.12	-1.47	0.72	0.0	7	20	5	11 nw.	
Milligan.	Perry.	875	17	65.3	-4.2	93	30	36	2	37	2.69	-1.57	0.82	0.0	11	7	18	5 nw.	
Millport.	Columbiana.	1,145	18	63.6	-3.3	89	22	36	8	38	3.24	-0.56	0.80	0.0	12	6	8	6 sw.	
Nellie.	Coshcotton.	850	10	64.6	-4.7	91	21	36	2	37	2.17	-1.68	0.45	0.0	11	11	15	4 w.	
New Alexandria.	Jefferson.	1,050	25	65.3	-4.1	93	23	37	1	35	3.14	-0.46	1.00	0.0	13	18	6	6 nw.	
New Berlin.	Stark.	1,100	18	64.4	-3.4	92	23	37	1	35	2.20	-1.96	0.90	0.0	4	16	7	6 sw.	
Ohio State University.	Columbiana.	1,053	16	64.8	-2.5	91	22	36	8	38	2.12	-2.55	1.40	0.0	14	12	4	4 ne.	
Pataskala.	Franklin.	757	27	68.6	-3.1	93	26	38	2	33	2.92	-0.61	0.78	0.0	7	6	19	5 sw.	
Philo(1).	Licking.	997	18	65.8	-3.7	92	23	37	2	33	2.38	-1.75	0.66	0.0	10	7	18	5 w.	
Plattsburg.	Muskingum.	1,018	15	66.2	-4.3	90	30	39	1	30	2.77	-0.99	1.31	0.0	12	11	13	6 nw.	
Pomeroy.	Clarke.	1,130	17	66.2	-3.2	93	23	41	1	32	3.56	-0.30	1.46	0.0	10	13	10	7 w.	
Portsmouth.	Meigs.	751	26	68.3	-4.1	95	23	42	1	30	3.15	-0.72	1.24	0.0	13	10	14	6 w.	
Rittman.	Scioto.	527	79	69.0	-3.6	94	19	44	2	31	5.18	+1.08	1.66	0.0	12	18	4	8 w.	
Shenandoah.	Wayne.	990	18	63.4	-3.5	91	26	35	1	41	2.16	-1.15	0.60	0.0	7	15	8	7 w.	
Richland.	Richland.	1,100	18	62.8	-4.3	90	23	33	4	30	3.19	-0.69	0.75	0.0	3	21	6	6 sw.	
Sidney.	Shelby.	935	27	67.8	-2.6	95	23	39	2	36	2.07	-1.73	0.27	0.0	14	16	6	8 nw.	
Somerset.	Perry.	1,080	11	67.6	-3.1	94	23	40	1	31	4.69	-0.08	1.34	0.0	13	17	4	9 w.	
Springfield.	Clarke.	1,002	16	Noble.	65.2	—	91	23	37	2	38	2.23	-2.65	0.66	0.0	9	8	19	3 ne.
Summerfield.	Wythe.	1,187	4	65.2	—	91	23	37	2	38	2.39	-0.39	0.73	0.0	13	8	17	5 sw.	
Thurman.	Gallia.	696	17	68.0	-3.9	90	19	42	1	29	3.48	-0.83	0.73	0.0	7	2	19	9 w.	
Urbana.	Champaign.	1,031	40	66.9	-1.7	97	23	36	2	39	1.64	-2.72	0.44	0.0	6	10	14	6 nw.	
Warren.	Trumbull.	900	21	64.5	-3.0	92	30	37	8	38	1.30	-2.25	0.42	0.0	7	15	5	10 sw.	
Waverly.	Pike.	590	27	68.2	-4.1	95	19	43	2	40	5.12	+1.13	1.83	0.0	11	20	1	9 s.	
Waynesville.	Warren.	700	25	67.4	-2.5	92	24	42	1	30	1.66	-2.46	0.55	0.0	7	15	10	5 nc.	
Wooster.	Wayne.	1,030	30	64.1	-3.7	90	23	35	8	38	2.57	-1.37	1.07	0.0	10	16	5	9 w.	
Youngstown.	Mahoning.	848	18	62.8	—	90	23	41	1	24	3.04	-0.91	0.0	0.0	11	21	0	9 w.	
Zanesville.	Muskingum.	700	23	N. Virginia.	—	—	—	—	—	—	2.60	-1.30	1.44	0.0	8	18	2	10 s.	
Big Stone Gap.	Wise.	1,540	19	67.7	-2.4	88	30	39	2	36	4.43	-0.43	1.40	0.0	13	12	7	11 w.	
Blacksburg.	Montgomery.	2,170	19	63.6	-4.3	86	21	35	4	40	10.44	+6.12	2.05	0.0	13	8	12	10 c.	
Burke's Garden.	Tazewell.	3,250	15	60.4	-3.7	79	19	29	4	45	5.12	-0.79	1.56	0.0	11	8	5	17 w.	
Elli Knob.	Lee.	3,243	7	67.6	—	85	30	41	3	28	3.23	-0.73	0.0	0.0	19	5	15	10 sw.	
Galax.	Grayson.	2,300	2	N. Virginia.	65.1	—	82	21	44	4	28	6.56	—	1.24	0.0	14	9	14	7 w.
Ivanhoe**.	Wythe.	2,028	6	65.1	—	86	21	44	4	28	6.56	—	1.24	0.0	14	9	14	7 w.	
Lebanon.	Russell.	2,131	—	65.2	—	87	21	37	2	36	3.21	—	0.59	0.0	14	10	10	10 sw.	
Marion.	Smyth.	2,224	15	65.7	-3.9	86	19	38	2	40	4.49	-0.86	1.09	0.0	12	16	11	3 sw.	
Max Meadows.	Wythe.	2,028	14	64.2	-3.8	86	21	36	2	40	6.58	—	1.51	0.0	12	17	4	9 sw.	
Mendota.	Washington.	1,350	4	64.4	—	87	20	40	1	32	4.43	—	1.51	0.0	12	17	4	9 sw.	
Radford.	Montgomery.	1,773	4	64.4	—	87	20	40	1	32	7.38	—	1.40	0.0	12	17	4	9 sw.	
Spears Ferry.	Scott.	1,221	14	64.0	-5.0	81	19	43	2	25	7.62	+2.88	2.08	0.0	11	11	11	10 sw.	
Wytheville.	Wythe.	2,293	17	65.0	-3.7	87	30	38	4	40	5.06	+0.95	1.22	0.0	17	12	10	8 w.	
North Carolina.	Cherokee.	1,800	68.4	89	18	40	2	35	8.42	—	1.86	0.0	19	5	22	3	sw.		
Andrews.	Buncombe.	2,250	31	67.0	-1.7	86	20	44	2	30	5.44	+1.09	1.97	0.0	15	5	16	9 se.	
Asheville.	Transylvania.	3,750	2	60.6	—	80	20	33	2	35	6.81	—	0.75	0.0	18	11	8	11 w.	
Banners Elk.	Swain.	2,000	22	N. Virginia.	—	86	18	39	2	40	5.22	—	1.03	0.0	17	9	18	3 s.	
Bryson City.	Jackson.	2,100	67.0	-3.2	86	18	40	1	38	6.22	—	1.80	0.0	17	5	9	16 s.		
Hendersonville.	Henderson.	2,167	14	66.7	-3.2	86	18	36	2	38	5.38	-0.87	1.35	0.0	11	13	7	8 s.	
Highlands.	Macon.	3,670	20	60.4	-4.2	79	19	40	3	30	10.46	+3.73	1.90	0.0	17	6	5	19 se.	
Hot Springs.	Madison.	1,326	12	69.1	-2.7	87	20	43	1	32	4.51	—	1.35	0.0	16	7	15	8 w.	
Jefferson.	Ash.	2,800	3	64.4	—	83	19	40	4	36	10.75	—	2.70	0.0	11	4	7	19 s.	
Marshall.	Madison.	1,646	9	70.0	—	87	21	43	1	24	3.04	—	0.91	0.0	12	4	7	19 s.	
Murphy.	Cherokee.	1,614	34	64.0	-5.0	81	19	43	2	25	8.82	+3.48	1.70	0.0	12	4	14	12 e.	
Rock House.	Macon.	3,100	18	64.0	-2.8	84	19	42	2	34	6.62	-1.43	1.75	0.0	16	4	14	12 sw.	
Waynesville.	Haywood.	2,756	16	65.1	-2.8	84	19	44	2	35	9.75	—	1.25	0.0	13	10	10	10 sw.	
Georgia.	Gilmer.	2,020	19	67.8	-2.9	84	19	41	1	33	8.51</								

TABLE 1.—Climatological data for June, 1910. District No. 3—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.			Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, 1/2 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	
Tennessee—Cont'd.																			
Elizabethton	Carter	1,575	20																
Erasmus	Cumberland	1,850	13	66.0	-3.3	88	25	36	2	37	7.25	+2.32	1.52	0.0	18	11	12	7	Lee F. Miller.
Florence	Rutherford	580	28	71.1	-4.3	88	18	48	2	29	7.69	+3.92	1.58	0.0	12	15	10	5	Mrs. E. D. Ashley.
Franklin	Williamson	655	20	70.2	-5.1	89	19	47	2	29	6.49	+2.56	1.68	0.0	11	6	14	10	Erastus P. Bell.
Harriman	Roane	841	15	72.2	-2.3	93	19 ^a	43	2	36	4.57	+0.38	0.88	0.0	11	5	21	4	J. L. Parkes, Jr.
Hohenwald	Lewis	983	24	70.4	-3.8	91	17 ^a	41	2	37	4.03	-1.06	1.60	0.0	9	11	14	5	Robert R. Ayers.
Iron City	Lawrence		13	70.8	-	90	24 ^a	46	2	37	5.20	+0.04	2.16	0.0	9	9	4	26	John Lutzelman.
Johnsonville	Humphreys	364	14	71.5	-4.0	94	26	46	2	25	3.35	3.69	-0.45	0.80	0	11	9	13	Capt. H. P. Seavy.
Jonesboro	Washington	1,740	15	68.8	-3.1	90	22	38	2	25	3.20	-1.43	1.26	0.0	9	14	5	Miss Sallie B. Matthews.	
Knoxville	Knox	977	39	71.2	-2.2	90	19	51	1	26	2.13	-1.04	0.98	0.0	16	3	19	8	Robert A. Lovegrove.
Lebanon	Wilson	522	1	71.3	-	91	18	48	2	34	9.01	-2.29	3.43	0.0	12	9	7	14	U. S. Weather Bureau.
Lewisburg	Marshall	727	15	72.4	-3.6	93	18	52	1	24	5.17	+1.29	3.25	0.0	11	11	15	4	Logan Fields.
Lynnville	Giles	770	22	71.6	-4.0	89	18 ^a	47	2	34	7.09	+3.65	4.71	0.0	8	9	21	0	Dr. R. D. Crutcher.
McMinnville	Warren	1,011	26	70.3	-3.6	89	25	43	2	33	5.41	+0.59	1.29	0.0	16	5	19	6	Col. J. H. Burrow.
Maryville	Blount	1,050	14	70.8	-4.5	90	17 ^a	47	2	32	5.46	+0.08	1.70	0.0	18	3	22	5	J. T. Sparkman.
Mountain City	Johnson	2,486	13															Mrs. F. E. Benedict.	
Nashville	Davidson	654	39	72.2	-4.1	90	24	51	3	29	6.61	+2.24	1.59	0.0	15	13	6	11	E. E. Barry.
Newport	Cooke	1,280	20	71.3 ^a	-2.9	86 ^a	24 ^a	49 ^a	3	24	3.90	-0.24	2.00	0.0	14	8	8	8	U. S. Weather Bureau.
Palmetto	Bedford	770	17	72.0	-3.3	91	18	48	2	34	7.31	+3.20	1.71	0.0	15	11	17	2	Dr. C. T. Burnett.
Pinewood	Hickman		3	71.4	-	93	20	44	2	35	4.80	-	1.11	0.0	11	10	8	12	Mrs. Ross Woods.
Pope	Perry		13	70.6	-4.7	93	24	45	3	35	3.50	-0.94	1.10	0.0	4	19	10	1	Miss Carrie Cash.
Rogersville	Hawkins	1,150	25	69.4	-2.6	90	22	40	1	32	2.05	-0.83	0.92	0.0	16	8	14	8	Miss Bessie Howard.
Rugby	Morgan	1,410	22	67.1	-4.7	90	25	37	3	40	5.77	+1.29	1.05	0.0	14	1	14	15	Fred. Beal.
Savannah	Hardin	442	26	72.0	-4.4	90	17 ^a	51	3	30	4.61	-0.14	1.00	0.0	8	14	9	7	S. G. Wilson.
Sevierville	Sevier		4	69.0	-	87	25	45	1	33	4.54	-	1.40	0.0	17	10	9	21	H. O. Eckel.
Sewanee	Franklin	2,000	14	70.1 ^a	-1.7	87	13 ^a	47 ^a	1	24	6.35	+1.60	2.52	0.0	7	13	4	13	University of the South.
Sparta	White	920	4	71.6	-	91	19 ^a	45	2	36	4.90	-	1.50	0.0	9	4	13	13	E. H. Hull.
Springdale	Claiborne	1,058	20	71.0	-	94	20	46	4	35	2.50	-	0.89	0.0	11	21	5	4	Mrs. Lucy E. Breeding.
Springville	Henry	377	7	70.8	-2.5	89	25	44	2	31	5.73	+1.49	1.51	0.0	12	6	19	5	H. A. Boden.
Tullahoma	Coffee	1,075	22	70.8	-4.5	90	18	46	2	34	5.73	+1.37	1.60	0.0	13	7	18	5	R. T. Moore.
Waynesboro	Wayne	753	24	70.6	-4.5	95	18	50	2	36	2.97	-1.55	0.83	0.0	8	10	11	9	H. C. Boyd.
Wildersville	Henderson		13	73.2	-	90	18	50	2	33	6.49	+2.46	2.36	0.0	10	7	19	4	W. R. Wilson.
Yukon	Lincoln	850	13	71.8	-4.1	90	18	50	2	33	4.54	-	1.40	0.0	17	10	9	21	W. P. Watson.
Kentucky																			
Alpha	Clinton	16	70.0	-3.6	86	20 ^a	45	3	28	7.06	+2.25	1.45	0.0	11	14	10	6	W. W. Hicks.	
Anchorage	Jefferson	700	9	68.2	-3.5	95 ^a	24	37 ^a	3	36	4.63	+0.87	3.02	0.0	4	11 ^a	13 ^a	5 ^a	sw.
Bardstown	Nelson	637	14	71.8	-2.8	95	22 ^a	41	3	34	5.50	+1.32	1.90	0.0	9	20	2	8	G. M. Talbott.
Beattyville	Ohio	650	7	68.2	-	93	25	36	3	36	4.98	-	1.64	0.0	11	10	10	10	G. W. Cann.
Beaver Dam	Madison	441	7	71.0	-	94	20	39	3	33	2.30	-	0.98	0.0	6	19	4	7	T. S. Woodward.
Berea	Warren	1,070	9	69.9	-2.0	93	25	37	3	32	6.29	+0.48	1.74	0.0	10	18	6	6	C. F. Rumold.
Bowling Green	Pulaski	500	21	72.8	-3.1	97	19 ^a	41	3	35	5.82	+2.07	1.67	0.0	12	18	2	10	Mrs. L. G. Causey.
Burnside	Cadiz	773	20	71.8	-	95	19	45	4	33	2.26	-	0.60	0.0	7	21	0	3	G. M. Estes.
Cadiz	Trigg		8	71.8	-	95	19	45	4	33	2.26	-	0.60	0.0	7	17	2	1	F. T. Street.
Calhoun	McLean	397	7	72.3	-	97	19	41	3	35	2.46	-	0.93	0.0	10	9	17	2	W. A. Taylor.
Catlettsburg	Boyd	544	17	71.7	-3.1	99	20	41	3	39	2.32	-1.53	1.20	0.0	16	20	3	7	Chas. N. Bruns.
Earlington	Hopkins	370	21	72.5	-3.1	99	20	41	3	39	2.32	-1.21	0.81	0.0	10	22	1	7	J. B. Atkinson.
Edmonton	Metcalf	600	19	69.8	-3.5	91	19 ^a	42	3	31	6.44	+2.30	2.66	0.0	10	11	14	5	Miss Lee Ray.
Eubank	Pulaski	1,177	16	68.0	-3.3	90	25	38	3	39	7.00	+2.05	1.91	0.0	12	10	11	10	W. H. Henderson.
Falmouth	Pendleton	530	21	68.2	-	91	19 ^a	38	2	35	7.24	-	1.75	0.0	15	6	16	8	J. V. Oldham.
Farmers	Rowan	668	5	68.2	-	91	19 ^a	40	2	35	7.24	-	1.75	0.0	15	6	16	8	Miss Gertrude Sorrell.
Frankfort	Franklin	560	20	69.2	-4.4	92	19	41	4	33	5.50	+2.47	1.79	0.0	10	21	4	5	Gustave Schaefer.
Franklin	Simpson	691	17	71.5	-3.6	95	19 ^a	42	3	29	4.28	+0.50	1.40	0.0	9	1	28	1	J. E. Newman.
Greensburg	Green	581	18	68.6	-5.2	93	23	37	3	38	5.87	+1.34	1.63	0.0	11	17	0	13	L. C. Alcorn.
Highbridge	Jessamine	762	8								7.47	-	1.22	0.0	13	21	2	7	Miss Lulu Wood.
Hopkinsville	Christian	524	14	72.3	-2.3	98	19 ^a	44	3	31	4.83	+0.19	1.23	0.0	10	17	2	11	W. F. Randle.
Irvington	Breckinridge	12	70.8	-3.1	91	19 ^a	42	3	28	4.56	+0.21	1.63	0.0	5	22	4	4	ne.	
Leitchfield	Grayson	635	15	69.4	-3.2	91	25	38	3	27	4.78	+0.82	1.82	0.0	8	19	9	2	nw.
Lexington	Fayette	989	23	68.8	-4.4	90	24	40	3	27	5.92	+1.93	0.9	0.0	9	9	12	9	ne.
Loretto	Marion	681	13	69.7	-3.2	91	25	40	3	31	5.53	+1.23	1.67	0.0	8	13	11	5	Loretto Academy.
Louisville	Jefferson	525	28	72.4	-2.6	95	19	43	3	27	4.08	-0.15	2.41	0.0	8	13	11	6	U. S. Weather Bureau.
Marion	Crittenden		16	69.9 ^a	-5.2	94	20	42	3	40	4.70	+1.19	1.20	0.0	6	10	12	8	ne.
Maysville	Mason	524	21	69.2	-3.6	96	19 ^a	40	3	36	7.34	+2.64	2.10	0.0	13	12	6	12	nw.
Middleboro	Bell	1,128	17	70.4	-1.9	92	21	40	1	33	5.25	+0.82	1.02	0.0	12	12	16	2	James D. Marsh.
Mt. Sterling	Montgomery	930	21	68.5	-3.9	91	23	41	3	30	6.31	+4.33	1.70	0.0	13	11	11	6	B. H. Perkins.
Owensboro	Davies	479	14	71.0	-3.5	93	24	45	3	31	5.50	+2.20	2.45	0.0	8	17	6	7	James O'Connell.
Owenton	Owen	700	14	69.4	-3.2	92	20	38	3	31	4.71	+0.74	2.68	0.0	6	8	16	6	Henry S. Berry.
Paducah	McCracken	341	18								6.92	-	1.99	0.0	6	26	0	4	J. T. Walker.
Pikeville	Pike		1								6.92	-	1.20	0.0	13	11	5	1	

TABLE I.—Climatological data for June, 1910. District No. 3—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmelted.	Number of rainy days, 0.1 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	
<i>Indiana—Cont'd.</i>																			
Kokomo.	Howard.	840	18	68.5	-2.1	99	30	35	3	40	1.62	-2.18	0.78	0.0	5	13	11	6	nw.
Lafayette.	Tipppecanoe.	617	31	68.6	-2.1	96	23†	39	1†	34	2.62	-1.85	1.90	T.	9	21	1	8	s.
Logansport.	Cass.	620	30	69.6	-1.9	100	30	37	3	42	1.16	-2.88	0.35	0.0	6	19	4	7	w.
Madison.	Jefferson.	480	18	70.8	-3.2	96	19	37	3	35	2.70	-1.29	1.17	0.0	8	13	12	5	e.
Marengo.	Crawford.	363	28																J. M. Johnson.
Marion.	Grant.	814	24	68.2	-2.1	98	30	38	3	38	0.93	-1.15	0.28	0.0	8	21	12	7	sw.
Markle.	Huntington.	814	15	65.8	-2.5	98	23†	34	3	45	1.10	-3.11	0.40	0.0	4	13	13	4	nw.
Mausy.	Rush.	980	30	66.6	-3.5	95	26	36	3	43	2.32	-1.97	1.08	0.0	9	13	13	4	nw.
Moores Hill.	Dearborn.	9	68.3			95	23†	38	3	32	1.43		0.55	0.0	5	20	5	5	nw.
Mount Vernon.	Posey.	410	24	73.4	-1.9	99	24	44	1	34	4.87	+1.14	3.13	0.0	8	25	0	5	s.
Paoli.	Orange.	611	13	69.8	-2.4	96	26	36	3	38	2.23	-1.23	0.82	0.0	10	10	17	3	ne.
Princeton.	Gibson.	481	28	70.9	-3.2	97	19†	39	3	37	2.20	-1.85	0.65	0.0	6	25	4	1
Richmond.	Wayne.	972	25	65.0	-4.4	95	23	36	2	39	1.42	-2.70	0.74	0.0	8	9	17	4
Rochester.	Fulton.	775	7	69.4		97	30	40	3†	32	0.42		0.32	0.0	2	21	5	4
Rockville.	Parke.	722	24	66.5	-4.5	92	19	33	3	37	2.06	-2.14	1.25	0.0	8	11	12	7	e.
Rome.	Perry.	370	7	73.6		97†	24†	40†	3	36	4.17		1.47	0.0	20	4	23	4	w.
Salamonia.	Jay.	5	66.7			93	23†	37	7†	41	2.46		1.12	0.0	5	7	10	11	ne.
Salem.	Washington.	717	17	68.4	-3.4	95	24	36	3	35	3.97	+0.03	1.40	0.0	9	14	13	3	c.
Scottsburg.	Scott.	570	16															J. Robt. Blair.	
Seymour.	Jackson.	610	23	69.8	-3.0	98	19†	33	3	38	2.90	-1.07	1.04	0.0	7	4	25	1	sw.
Shelbyville.	Shelby.	6																B. F. Crouch.	
Terre Haute.	Vigo.	498	20	71.7	-1.9	96	19†	41	3	32	1.60	-2.56	1.08	0.0	2	17	5	8	c.
Veedersburg.	Fountain.	612	11	69.2	-1.1	99	19	33	31	42	1.90	-2.70	1.46	0.0	7	22	7	1	c.
Vevay.	Switzerland.	525	29	70.2	-3.4	95	19	38	3	30	2.65	-2.01	1.10	0.0	8	4	21	5	sw.
Vincennes.	Knox.	431	18	71.8	-2.5	99	19	42	3	34	4.50	-0.22	2.00	0.0	5	18	7	5	w.
Washington.	Davies.	484	14	70.2	-2.4	95	19	41	3	30	1.49	-2.96	0.45	0.0	10	22	1	7	ne.
Whitestown.	Boone.	2	67.0			94	26	35	3	36	2.22		1.62	0.0	7	10	18	2	nw.
Winona Lake.	Kosciusko.	3	67.9			98	23†	37	3	41	0.77		0.34	0.0	5	7	19	4	w.
Worthington.	Greene.	526	28	69.5	-2.8	97	19	38	3	35	3.01	-1.38	0.77	0.0	11	15	13	3	w.
<i>Illinois.</i>																		B. F. Michels.	
Albion.	Edwards.	531	19	72.2	-2.1	97	26	41	3	31	1.36	-2.83	0.40	0.0	6	14	11	5	s.
Charleston.	Coles.	720	25	69.6	-3.0	97	26	38	3	35	2.43	-1.87	1.32	0.0	5	10	13	7	c.
Equality.	Gallatin.	421	12	72.7	-1.2	98	20	42	3	39	2.84	-0.76	1.10	0.0	9	14	14	2	s.
Fairfield.	Wayne.	495	17	69.8	-3.6	97	24	40	3	35	1.14	-2.67	0.43	0.0	5	20	0	10	nw.
Flora.	Clay.	495	24	71.5	-1.2	98	24	40	3	38	3.23	-1.31	0.94	0.0	6	17	9	4	sw.
Golconda.	Pope.	500	32	72.4	-2.6	97	20	46	3	33	3.67	-0.39	1.83	0.0	9	12	12	6	sw.
Hooperston.	Vermilion.	715	8	69.2		94	19†	37	3	34	1.73		0.83	0.0	8	22	6	2
McLeansboro.	Hamilton.	463	27	71.9	-2.3	99	20	42	3	37	3.13	-0.87	1.32	0.0	7	23	1	6	w.
Martinsville.	Clark.	630	22	70.4	-2.2	100	19	38	3†	38	2.15	-1.72	1.40	0.0	3	8	10	12	n.
Mount Carmel.	Wabash.	424	9	71.0		96	19†	42	3	33	1.72	-2.34	0.44	0.0	7	19	3	3	ne.
New Burnside.	Johnson.	556	15	70.5	-4.2	92	23†	42	3	30	2.95	-0.69	1.00	0.0	4	24	2	4	e.
Olnsey.	Richland.	486	23	71.8	-2.8	97	24	39	3	35	3.07	-0.59	1.04	0.0	8	12	10	6	ne.
Palestine.	Crawford.	500	28	71.8	-1.2	98	24	40	3	33	2.27	-1.73	1.22	0.0	6	12	11	7	nw.
Paris.	Edgar.	600	17	69.2	-3.3	96	19	36	3	35	3.00	-0.70	1.10	0.0	5	14	14	2	ne.
Philo.	Champaign.	700	26	68.4	-2.3	96	26	35	3	37	2.05	-1.70	1.85	0.0	5	17	10	3	ne.
Rantoul.	...do.	768	19	69.5	-1.7	98	19	36	3	37	2.08	-2.12	1.78	0.0	6	21	5	4	ne.
Robinson.	Crawford.	500	10	70.6	-0.8	96	24	44	7	36	2.29	-1.67	1.05	0.0	4	14	7	9
Summer.	Lawrence.	450	2	71.2		95	24†	41	3	31	3.53		1.72	0.0	4	12	14	4	n.
Tuscola.	Douglas.	644	17	69.6	-2.0	99	19	34	3	42	1.96	-1.88	0.68	0.0	6	19	6	5	n.
Urbana.	Champaign.	725	8	69.6		95	19	38	3	32	2.99		2.75	0.0	5	4	25	1	e.
																		Prof. J. G. Mosier.	

^a, ^b, ^c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

* Precipitation included in that of the next measurement.

** Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings.

† Also on other dates.

‡ Separate dates of falls not recorded.

§ Data are from standard instruments not supplied by the U. S. Weather Bureau.

|| Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

||| Estimated by observer.

¶ Precipitation for the 24 hours ending on the morning when it is measured.

† Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for June, 1910. District No. 3, Ohio Valley.*

TABLE 2.—*Daily precipitation for June, 1910. District No. 3—Continued.*

TABLE 2.—*Daily precipitation for June, 1910. District No. 3—Continued.*

TABLE 2.—*Daily precipitation for June, 1910. District No. 3—Continued.*

TABLE 3.—Maximum and minimum temperatures at selected stations, June, 1910. District No. 3, Ohio Valley.

Date.	Pennsylvania.					West Virginia.										Ohio.													
	Greenville.		Pittsburg.		Charleston.		Elkhorn.		Elkins.		Glenville.		Huntington.		Morgantown.		Parkersburg.		Wheeling.		Canton.		Cincinnati.		Columbus.		Dayton.		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	
1...	47	41	47	42	60	43	67	37	52	38	55	42	66	46	47	39	56	44	51	42	46	37	69	49	59	41	65	43	
2...	66	44	67	45	70	45	70	43	68	49	72	44	69	46	70	46	73	44	55	40	67	46	67	44	68	41	70	41	
3...	59	43	60	42	70	46	72	38	52	40	64	45	66	45	61	40	63	45	70	42	54	39	64	43	58	44	66	44	
4...	68	41	67	47	76	45	80	44	76	42	79	42	75	45	73	44	75	46	75	44	66	46	64	50	68	49	64	45	
5...	66	50	66	58	76	59	80	58	67	55	70	58	74	74	50	68	57	71	59	70	48	64	51	72	57	68	55	70	57
6...	70	43	71	54	77	58	75	56	72	51	77	54	79	56	71	53	75	54	78	49	69	45	75	52	72	50	74	44	
7...	67	42	64	48	76	55	76	50	62	44	74	53	71	52	70	49	69	53	73	47	67	42	69	48	74	43	76	48	
8...	75	35	72	48	77	48	72	40	74	39	80	43	79	47	73	43	76	48	81	44	72	47	75	54	74	53	78	48	
9...	72	44	69	54	75	55	70	48	69	43	70	47	65	52	69	50	62	51	64	45	65	48	63	54	61	55	62	54	
10...	70	47	64	54	74	50	73	50	68	55	72	58	72	57	65	54	66	55	67	52	63	50	63	56	60	53	61	49	
11...	66	48	72	55	73	57	75	57	74	50	73	53	68	58	72	56	68	58	71	57	64	53	68	55	60	53	62	55	
12...	76	44	66	55	72	56	75	58	64	43	75	57	77	54	69	57	74	55	75	54	68	50	76	49	71	50	77	44	
13...	78	48	71	52	72	56	73	55	63	52	71	55	78	56	68	51	73	55	77	51	76	56	77	56	80	47	78	56	
14...	81	48	74	58	80	58	77	55	76	56	81	57	80	58	76	56	79	59	75	53	82	53	81	61	76	60	85	54	
15...	85	51	82	55	78	60	77	58	71	55	80	59	87	58	73	56	77	58	86	56	81	50	85	60	82	60	86	53	
16...	83	52	73	61	77	59	67	55	63	55	75	59	83	58	68	58	79	60	82	58	80	55	88	64	86	62	88	56	
17...	86	52	85	61	84	59	83	51	81	54	89	56	91	58	83	57	88	57	90	56	86	54	89	64	88	64	92	58	
18...	84	60	86	69	87	62	82	58	81	64	88	63	90	64	86	67	88	70	91	58	88	63	90	72	89	67	91	63	
19...	87	57	85	67	91	57	86	65	82	58	88	64	95	62	83	68	88	62	91	67	88	65	95	72	90	68	95	63	
20...	88	54	87	66	88	62	85	54	85	57	89	59	91	61	82	62	87	63	93	64	87	59	87	69	87	64	90	63	
21...	89	55	90	65	90	65	85	57	86	58	91	63	92	65	78	64	90	65	94	67	88	60	90	66	94	64	94	64	
22...	91	54	89	63	90	66	86	57	87	58	94	63	91	65	77	63	90	67	96	64	89	59	94	70	90	68	95	65	
23...	91	54	90	64	90	67	81	59	87	58	93	64	96	68	83	63	92	65	95	61	91	60	93	71	92	67	96	62	
24...	87	60	87	67	88	65	85	62	89	60	93	65	92	65	86	65	90	67	95	62	84	64	90	70	89	65	96	66	
25...	84	49	84	61	90	67	86	68	86	66	92	61	92	67	86	65	90	66	95	61	83	55	92	65	88	57	92	56	
26...	88	53	87	67	90	67	82	57	87	63	90	65	91	68	89	64	87	69	93	60	88	59	92	68	94	67	96	59	
27...	76	62	77	69	86	63	83	65	80	66	85	67	88	68	82	63	82	68	80	60	75	67	80	68	83	68	87	68	
28...	85	55	81	63	79	66	82	62	74	64	83	68	82	68	76	64	83	68	88	67	83	62	83	68	84	66	87	66	
29...	85	50	84	62	86	65	83	58	84	62	88	64	89	64	82	67	87	64	91	59	81	56	87	67	86	65	86	59	
30...	91	55	88	64	84	59	89	65	80	59	93	63	96	66	85	61	91	64	95	60	89	57	89	70	92	67	95	62	
31...																													
Mns	78.0	49.7	76.2	57.8	80.3	58.5	78.6	54.1	75.0	53.9	81.1	57.0	82.1	58.1	74.5	56.6	78.8	58.7	81.7	55.0	75.8	52.9	80.4	60.4	78.2	58.5	81.4	55.0	

Date.	Ohio.					Virginia.					Tennessee.					Waynesboro.					Beattyville, Ky.							
	Marion.		Waverly.		Big Stone Gap.	Wytheville.		Asheville, N.C.		Decatur, Ala.		Chattanooga.		Jonesboro.		Knoxville.		Nashville.		Palmetto.		Sparta.		Waynesboro.		Beattyville, Ky.		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1...	50	40	68	45	66	42	62	45	64	49	80	52	73	55	70	50	71	51	73	54	76	55	75	48	75	51	73	39
2...	66	36	73	43	75	39	68	45	74	44	79	51	75	50	78	44	71	51	73	54	76	46	74	45	75	46	73	38
3...	57	42	68	45	66	45	60	46	68	54	82	51	74	55	88	38	70	51	71	52	78	50	75	55	76	36	74	44
4...	69	40	69	43	78	50	78	38	75	51	91	61	83	56	89	38	64	54	84	55	88	54	86	50	87	53	79	44
5...	67	54	76	54	76	60	65	56	66	59	75	61	70	64	89	50	68	64	73	64	84	50	77	63	74	58	74	58
6...	73	42	79	47	75	57	74	59	75	56	84	61	83	65	79	63	79	64	87	53	81	60	81	53	81	52	87	52
7...	73	45	72	49	74	59	70	50	74	53	84	61	81	63	77	56	77	59	74	61	83	54	79	54	80	58	82	52
8...	80	42	78	48	74	48	68	41	66	49	89	61	81	61	71	53	76	56	83	58	84	55	82	58	80	58	84	64
9...	64	48	80	51	64	54	65	65	71	55	84	61	81	62	80	57	77	61	76	65	88	60	80	62	80	63	88	

TABLE 3.—*Maximum and minimum temperature at selected stations, June, 1910. District No. 3—Continued.*

Date.	Kentucky.												Indiana.												Philo, Ill.															
	Bowling Green. §§			Erlington. §§			Greensburg. §§			Lexington.			Louisville.			Maysville. §§			Williamsburg. §§			Butterville.			Evansville.			Indianapolis.			Kokomo.			Rockville.			Worthington.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.						
1...	78	50	77	50	72	42	68	45	73	48	71	45	72	41	72	42	74	54	69	44	68	40	65	41	74	44	72	39												
2...	78	48	75	45	75	43	68	45	71	49	74	42	78	46	71	46	73	52	62	43	65	41	65	44	71	45	60	41												
3...	71	41	70	41	70	37	59	40	66	43	68	40	79	42	65	35	63	45	62	49	64	35	57	38	65	38	61	35												
4...	81	50	69	54	78	45	73	40	71	55	73	42	82	47	64	47	67	57	61	50	55	45	62	50	67	53	64	48												
5...	76	58	77	57	75	50	70	60	76	53	72	60	71	54	72	60	70	55	70	52	62	54	52	54	72	51	70	55												
6...	84	51	80	48	77	49	73	54	78	55	78	49	82	58	75	45	76	55	70	48	71	45	61	48	74	47	72	45												
7...	77	54	75	52	69	52	65	49	69	49	73	48	75	59	71	41	70	50	71	43	74	38	66	44	70	42	72	38												
8...	82	55	83	56	79	50	74	54	78	56	79	45	81	79	49	78	58	74	56	79	45	69	55	76	52	75	53													
9...	78	64	74	53	77	57	69	56	73	57	63	48	73	56	67	54	75	59	64	54	69	53	66	56	73	58	72	54												
10...	74	62	67	62	77	59	62	55	64	58	63	54	76	61	55	66	59	63	55	66	50	63	56	63	57	73	55													
11...	78	56	80	57	70	56	66	56	74	58	68	56	67	58	67	44	75	58	72	53	76	49	63	49	71	52	78	46												
12...	83	50	84	49	75	47	72	54	78	54	79	57	72	50	76	44	78	57	76	49	78	43	70	50	79	48	81	44												
13...	82	53	85	49	76	50	73	57	78	57	80	49	75	51	79	51	80	58	78	57	83	49	71	53	82	51	85	49												
14...	88	53	88	50	80	52	78	60	84	58	83	56	82	80	83	50	82	61	81	69	84	55	72	58	83	54	85	50												
15...	88	55	90	54	90	52	80	59	86	60	86	54	80	50	87	52	87	62	87	59	90	50	76	57	88	53	88	52												
16...	92	55	95	58	87	54	83	56	90	63	89	56	84	56	90	56	91	66	88	63	90	54	79	59	90	56	92	59												
17...	93	63	92	61	89	56	86	67	91	69	92	56	89	57	90	58	89	66	88	67	87	60	79	63	91	60	90	57												
18...	95	64	94	63	90	58	86	67	92	69	91	57	89	60	92	64	90	69	90	68	90	62	89	63	92	62	93	61												
19...	97	65	97	64	91	57	89	65	95	72	96	62	89	61	98	66	93	68	93	66	91	61	92	66	97	64	95	62												
20...	96	62	99	62	89	59	86	62	90	70	91	63	89	60	92	65	93	67	90	66	92	58	87	60	90	62	91	60												
21...	95	60	94	65	89	57	86	62	91	66	93	59	91	60	91	61	90	67	90	67	93	64	88	65	90	66	92	62												
22...	96	65	95	65	92	61	88	68	93	69	96	62	91	61	94	63	93	70	93	71	94	64	87	65	93	64	95	59												
23...	92	67	97	68	90	64	87	69	90	73	95	64	86	65	97	67	92	72	94	73	96	67	88	69	91	69	93	65												
24...	96	66	95	67	90	66	90	67	95	71	94	61	90	64	97	65	95	71	94	69	90	66	91	66	96	66	92	63												
25...	97	65	97	65	93	63	88	66	91	69	94	62	93	65	90	63	93	70	90	64	90	59	88	66	90	66	91	66												
26...	96	68	95	63	90	68	87	71	90	74	91	62	92	65	90	61	92	74	94	64	94	58	89	65	93	65	96	65												
27...	95	67	94	70	89	66	86	71	90	72	90	65	89	63	82	68	91	72	92	67	84	67	88	68	93	70	94	67												
28...	84	69	80	67	76	67	78	66	85	70	85	66	71	63	84	66	85	71	84	66	87	68	78	63	82	68	85	58												
29...	94	62	96	62	88	59	84	66	90	65	90	63	84	64	88	61	91	69	86	66	88	59	78	64	87	64	88	61												
30...	89	67	94	68	88	60	86	70	89	72	91	65	86	65	90	63	90	72	92	70	99	60	88	65	87	66	91	64												
31...	Mns	86.8	58.0	80.8	58.2	82.0	55.2	78.0	59.5	82.7	62.0	83.1	55.4	82.0	57.1	81.8	55.2	82.8	63.0	79.9	59.0	82.1	53.9	75.7	57.3	82.0	57.0	82.2	54.5											